Thermochimica Acta, 208 (1992) v–vi
Elsevier Science Publishers B.V., Amsterdam

CONTENTS

(*Abstracted/Indexed in: Curr. Contents: Phys., Chem. Earth Sci.; Eng., Technol. Appl. Sci., Chem. Abstr., PASCAL/CNRS*)

REVIEW

The thermal behaviour of divalent and higher valent metal soaps: a review
M.S. Akanni, E.K. Okoh (Ile-Ife, Nigeria), H.D. Burrows (Coimbra, Portugal) and H.A. Ellis (St Andrew, Jamaica) 1

REGULAR PAPERS

Theoretical

Modification of the Wilson equation for correlating quaternary liquid–liquid equilibrium data
I. Nagata and T. Watanabe (Kanazawa, Japan) 43

Liquid–liquid equilibria for methanol + cyclohexane + *n*-heptane and methanol + toluene + cyclohexane + *n*-heptane at 25°C
I. Nagata (Kanazawa, Japan) 61

Thermodynamics and Calorimetry

Excess molar enthalpies of binary and ternary mixtures containing aniline and 1-propanol
I. Nagata (Kanazawa, Japan) 73

Thermochemical analysis of intermediary metabolism in resting 2C11-12 mouse macrophage hybridoma cells
R.B. Kemp (Aberystwyth, UK) 83

Thermal behaviour of Landolt reactions studied by heat exchange calorimetry of batch type
S. Fujieda and J. Kawahito (Tokyo, Japan) 97

Thermal Analysis

Structural and thermal studies of the chloro complexes of cobalt, nickel and copper with 2,2-bis(acrylamido)acetic acid and assessment of their suitability as anti-static additives for polyethylene
J.R. Allan, A.R. Gardner, B. McCloy (Edinburgh, UK) and W.E. Smith (Glasgow, UK) .. 107

Structural and thermal studies of the chloro complexes of cobalt, nickel and copper with 4-aminobenzoyl hydrazide and an assessment of their suitability as anti-static additives for polyethylene
J.R. Allan, A.R. Gardner, B. McCloy (Edinburgh, UK) and W.E. Smith (Glasgow, UK) .. 115

Structural and thermal studies of the chloro complexes of cobalt, nickel and copper with 2,6-diaminopyridine and an assessment of their suitability as anti-static additives for polyethylene
J.R. Allan, A.R. Gardner, B. McCloy and W.E. Smith (Edinburgh, UK) 125

Structural and thermal studies of a 5-fluorouracil complex of copper
J.R. Allan and B. McCloy (Edinburgh, UK) 133

Investigations on the thermotropic phase behaviour of lipids A from *Brucella* and other Gram-negative bacteria
M.C. Ramos-Sánchez, A. Orduña-Domingo, A. Rodríguez-Torres, F.J. Martín-Gil and J. Martín-Gil (Spain) 139

Thermal decomposition of mixtures containing nitrocellulose and pentaerythritol tetranitrate
C.-C. Huang, M.-D. Ger and Y.-C. Lin (Taoyuan, Taiwan) and S.-I. Chen (Lungtan, Taiwan) 147

Thermal analysis and self-similarity law in particle size distribution of powder samples. Part 3
R. Ozao (Tokyo, Japan) and M. Ochiai (Kanagawa, Japan) 161

Thermal decomposition of basic aluminium ammonium sulphate in an environment of carbon and water vapour
B. Pacewska (Płock, Poland) 169
Thermal decomposition process of some rare-earth–nitrilotriacetic acid–serine mixed complexes
W.M. Sun, C.J. Niu and Y.Q. Jia (Jilin, People's Republic of China) 181
Solid phase thermal cis–trans isomerization of the bis(diamine) and tetraazacycloalkane complexes of the type $[(Co \text{ or } Cr)X_2\{(diamine)_2 \text{ or } (mac)\}]^+$. Isomerization of *cis*-$[CoCl_2(cyclam)](Cl \text{ or } BF_4)$ in the solid state
S. Yamaguchi, Y. Hayashi, M. Suzuki and A. Uehara (Kanazawa, Japan) 191
Binary and ternary pyrotechnic systems of Mn and/or Mo and BaO_2 and/or SrO_2. Part 1. Thermal analysis
R.L. Drennan and M.E. Brown (Grahamstown, South Africa) 201
Binary and ternary pyrotechnic systems of Mn and/or Mo and BaO_2 and/or SrO_2. Part 2. Combustion studies
R.L. Drennan and M.E. Brown (Grahamstown, South Africa) 223
Binary and ternary pyrotechnic systems of Mn and/or Mo and BaO_2 and/or SrO_2. Part 3. Kinetic aspects
R.L. Drennan and M.E. Brown (Grahamstown, South Africa) 247
Preparation and characterization of neodymium(III) and dysprosium(III) complexes with tetra-aza macrocycles
M. Fujiwara, T. Matsushita (Otsu, Japan), R. Kiraly, E. Brucher (Debrecen, Hungary) and H. Wakita (Fukuoka, Japan) 261
Regularities in the formation of orthotellurates in the three-component system $AgNO_3$–$K_2H_4TeO_6$–H_2O and properties of the compounds obtained
G.G. Gospodinov (Bourgas, Bulgaria) 269
Temperature programmed desorption (TPD) from catalyst surfaces: the symmetry of the TPD curve as a function of the kinetic model
J. Málek (Pardubice, Czech and Slovak Federal Rep.) and J.M. Criado (Seville, Spain) 275
A kinetic analysis of thermogravimetric data of radically polymerised *N*-phenylmaleimide
P. Sivasamy (Sivakasi, India), C.T. Vijayakumar, K. Lederer (Leoben, Austria) and A. Kramer (Fribourg, Switzerland) 283

Other Topics
A Fourier transform infrared study of the oxidation of pyrite
J.G. Dunn, W. Gong and D. Shi (Perth, W.A., Australia) 293
Use of *F*-function of two-parameter cubic equation of state in *P*–*V*–*T* calculations of binary mixtures
G. Liu, C.J. Lim and J. Lielmezs (Vancouver, B.C., Canada) 305
Ionic solvation in water + co-solvent mixtures. Part 24. Free energies of transfer of single ions from water into water + 1,2-dimethoxyethane mixtures
C.F. Wells (Birmingham, UK) 323
Gibbs energy of formation of $CuCrO_4$ and phase relations in the system Cu–Cr–O below 735 K
K.T. Jacob, G.M. Kale (Bangalore, India) and Y. Waseda (Sendai, Japan) 341

Author Index 349

Subject Index 351